

FIG. 1a  
(PRIOR ART)

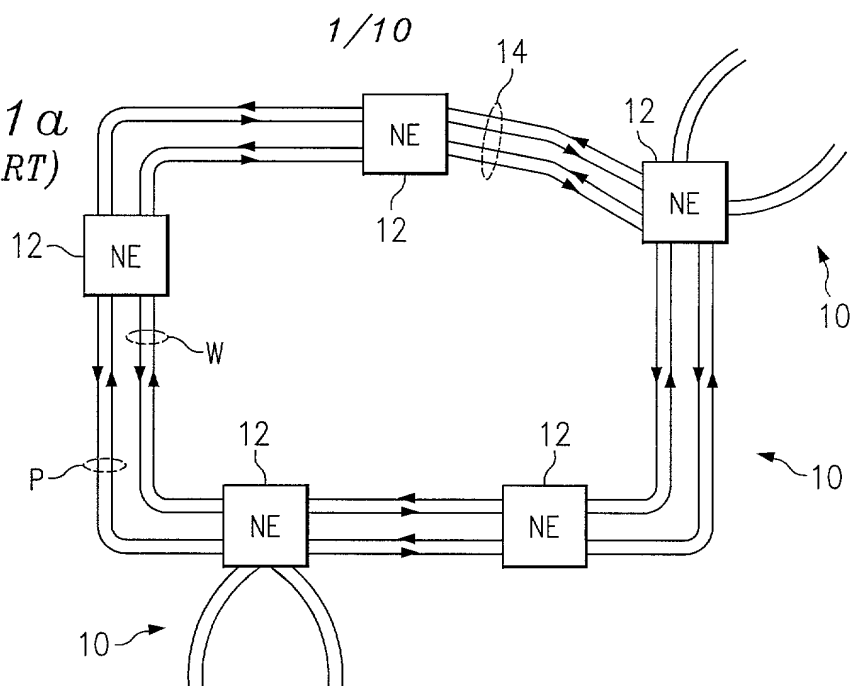
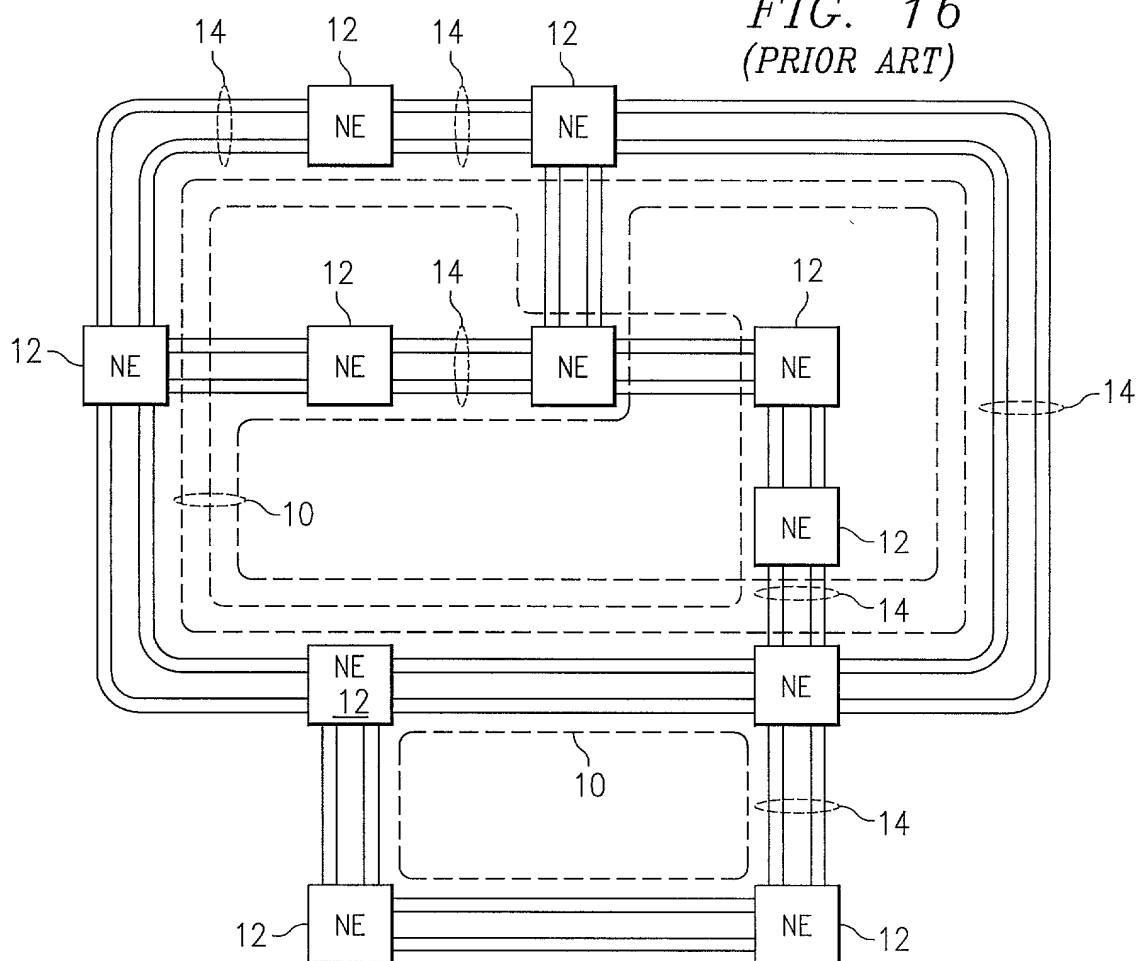


FIG. 1b  
(PRIOR ART)



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FIG. 2a  
(PRIOR ART)

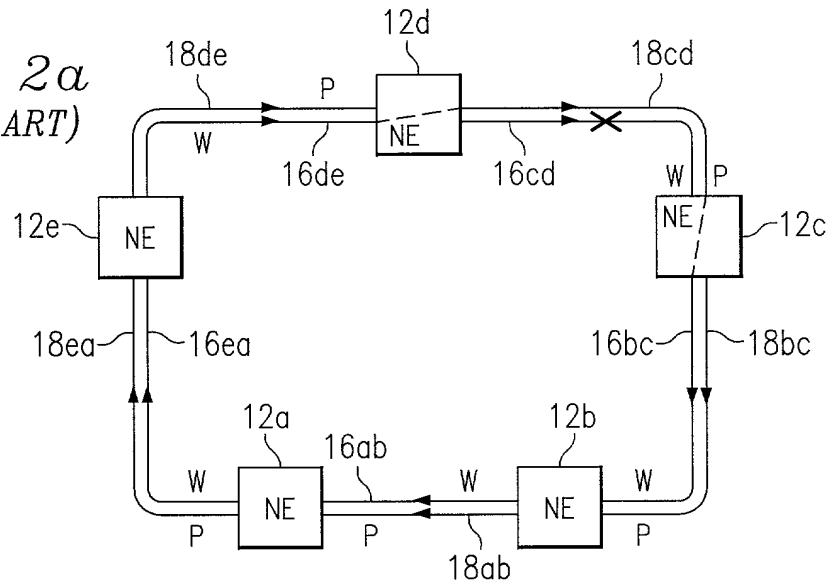


FIG. 2b

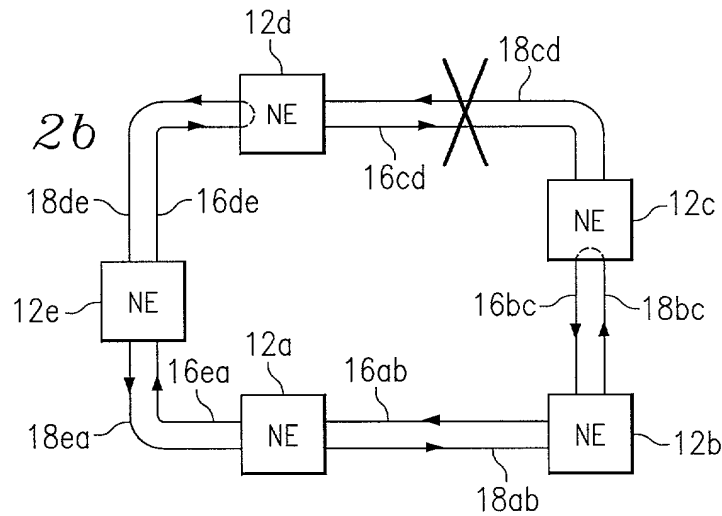


FIG. 3

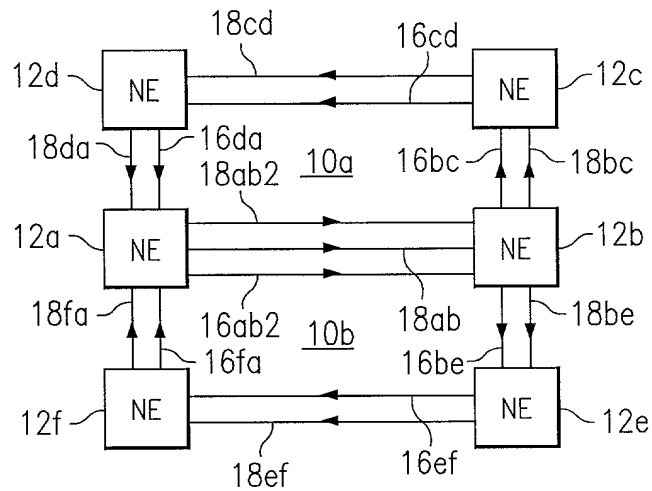


FIG. 4

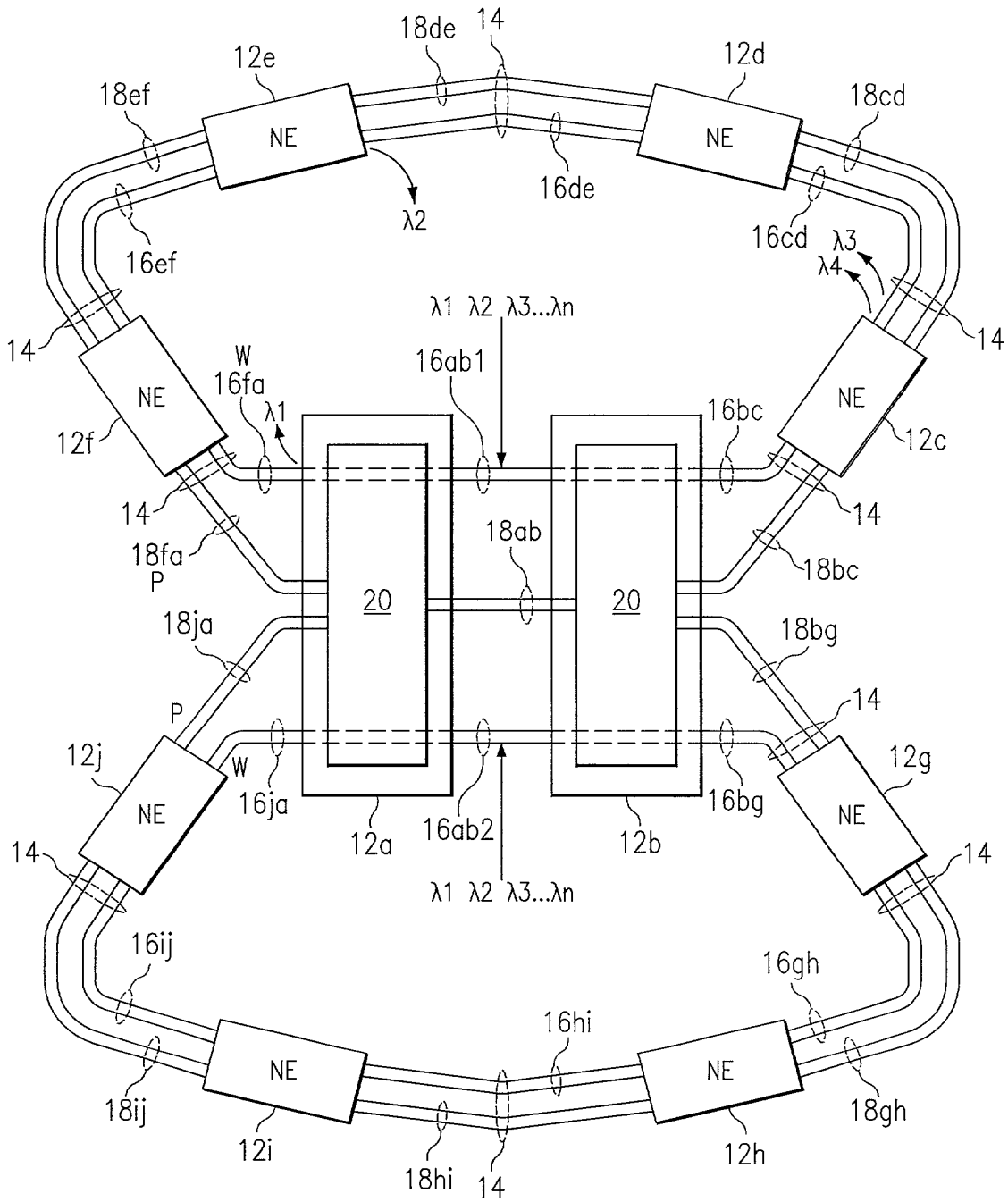
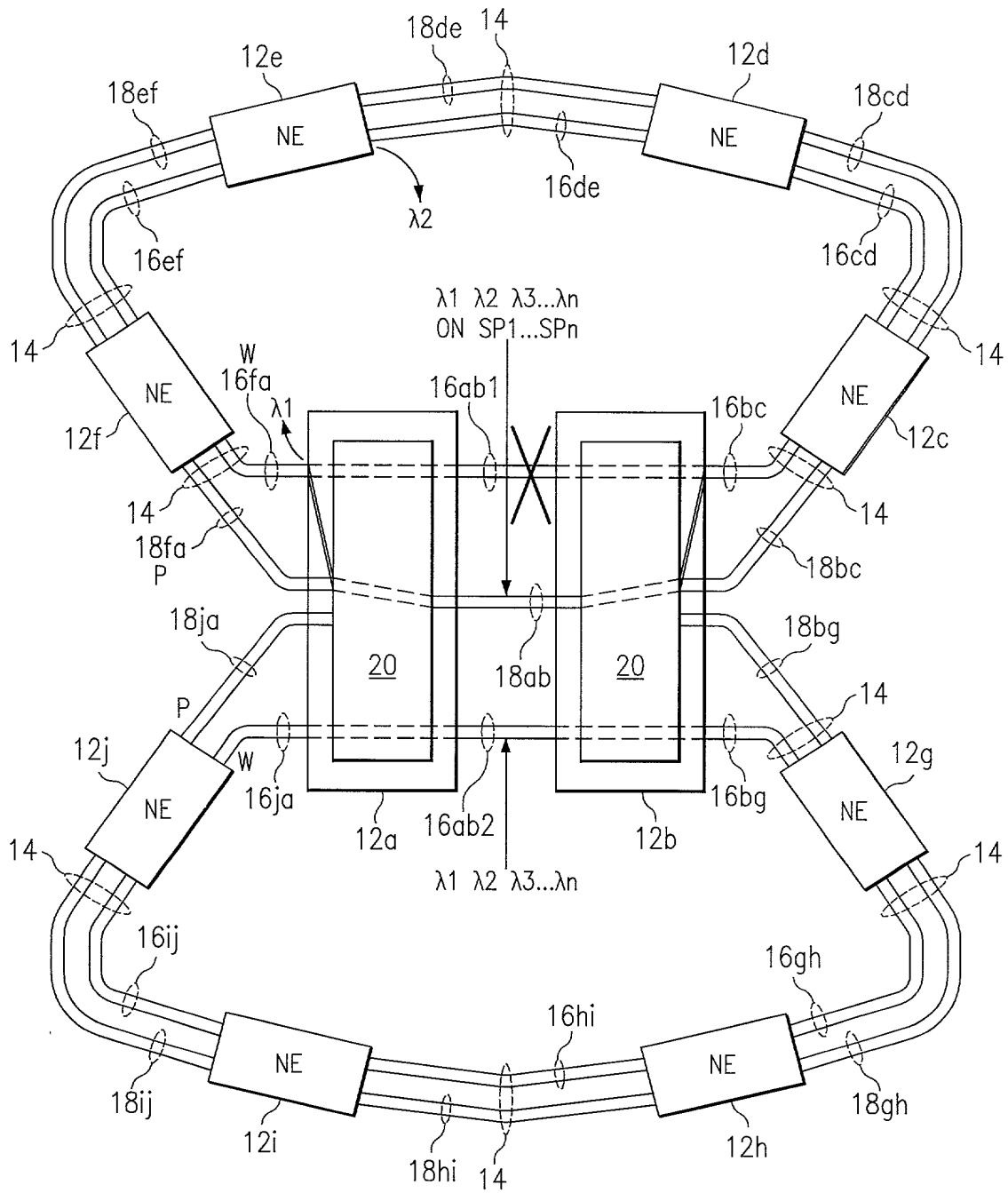


FIG. 5



The diagram shows a ring resonator 100 with six NE components (12a-12f) and two waveguide sections 20. The components are connected in a ring configuration. The waveguide sections 20 are located in the center of the ring. The diagram includes various labels for components and connections, such as 12a, 12b, 12c, 12d, 12e, 12f, 12g, 12h, 12i, 12j, 12k, 12l, 12m, 12n, 12o, 12p, 12q, 12r, 12s, 12t, 12u, 12v, 12w, 12x, 12y, 12z, 12aa, 12ab, 12ac, 12ad, 12ae, 12af, 12ag, 12ah, 12ai, 12aj, 12ak, 12al, 12am, 12an, 12ao, 12ap, 12aq, 12ar, 12as, 12at, 12au, 12av, 12aw, 12ax, 12ay, 12az, 12ba, 12bb, 12bc, 12bd, 12be, 12bf, 12bg, 12bh, 12bi, 12bj, 12bk, 12bl, 12bm, 12bn, 12bo, 12bp, 12bq, 12br, 12bs, 12bt, 12bu, 12bv, 12bw, 12bx, 12by, 12bz, 12ca, 12cb, 12cc, 12cd, 12ce, 12cf, 12cg, 12ch, 12ci, 12cj, 12ck, 12cl, 12cm, 12cn, 12co, 12cp, 12cq, 12cr, 12cs, 12ct, 12cu, 12cv, 12cw, 12cx, 12cy, 12cz, 12da, 12db, 12dc, 12dd, 12de, 12df, 12dg, 12dh, 12di, 12dj, 12dk, 12dl, 12dm, 12dn, 12do, 12dp, 12dq, 12dr, 12ds, 12dt, 12du, 12dv, 12dw, 12dx, 12dy, 12dz, 12ea, 12eb, 12ec, 12ed, 12ee, 12ef, 12eg, 12eh, 12ei, 12ej, 12ek, 12el, 12em, 12en, 12eo, 12ep, 12eq, 12er, 12es, 12et, 12eu, 12ev, 12ew, 12ex, 12ey, 12ez, 12fa, 12fb, 12fc, 12fd, 12fe, 12ff, 12fg, 12fh, 12fi, 12fj, 12fk, 12fl, 12fm, 12fn, 12fo, 12fp, 12fq, 12fr, 12fs, 12ft, 12fu, 12fv, 12fw, 12fx, 12fy, 12fz, 12ga, 12gb, 12gc, 12gd, 12ge, 12gf, 12gg, 12gh, 12gi, 12gj, 12gk, 12gl, 12gm, 12gn, 12go, 12gp, 12gq, 12gr, 12gs, 12gt, 12gu, 12gv, 12gw, 12gx, 12gy, 12gz, 12ha, 12hb, 12hc, 12hd, 12he, 12hf, 12hg, 12hi, 12hj, 12hk, 12hl, 12hm, 12hn, 12ho, 12hp, 12hq, 12hr, 12hs, 12ht, 12hu, 12hv, 12hw, 12hx, 12hy, 12hz, 12ia, 12ib, 12ic, 12id, 12ie, 12if, 12ig, 12ih, 12ii, 12ij, 12ik, 12il, 12im, 12in, 12io, 12ip, 12iq, 12ir, 12is, 12it, 12iu, 12iv, 12iw, 12ix, 12iy, 12iz, 12ja, 12jb, 12jc, 12jd, 12je, 12jf, 12jg, 12jh, 12ji, 12jj, 12jk, 12jl, 12jm, 12jn, 12jo, 12jp, 12jq, 12jr, 12js, 12jt, 12ju, 12jv, 12jw, 12jx, 12jy, 12jz, 12ka, 12kb, 12kc, 12kd, 12ke, 12kf, 12kg, 12kh, 12ki, 12kj, 12kk, 12kl, 12km, 12kn, 12ko, 12kp, 12kq, 12kr, 12ks, 12kt, 12ku, 12kv, 12kw, 12kx, 12ky, 12kz, 12la, 12lb, 12lc, 12ld, 12le, 12lf, 12lg, 12lh, 12li, 12lj, 12lk, 12ll, 12lm, 12ln, 12lo, 12lp, 12lq, 12lr, 12ls, 12lt, 12lu, 12lv, 12lw, 12lx, 12ly, 12lz, 12ma, 12mb, 12mc, 12md, 12me, 12mf, 12mg, 12mh, 12mi, 12mj, 12mk, 12ml, 12mm, 12mn, 12mo, 12mp, 12mq, 12mr, 12ms, 12mt, 12mu, 12mv, 12mw, 12mx, 12my, 12mz, 12na, 12nb, 12nc, 12nd, 12ne, 12nf, 12ng, 12nh, 12ni, 12nj, 12nk, 12nl, 12nm, 12nn, 12no, 12np, 12nq, 12nr, 12ns, 12nt, 12nu, 12nv, 12nw, 12nx, 12ny, 12nz, 12oa, 12ob, 12oc, 12od, 12oe, 12of, 12og, 12oh, 12oi, 12oj, 12ok, 12ol, 12om, 12on, 12oo, 12op, 12oq, 12or, 12os, 12ot, 12ou, 12ov, 12ow, 12ox, 12oy, 12oz, 12pa, 12pb, 12pc, 12pd, 12pe, 12pf, 12pg, 12ph, 12pi, 12pj, 12pk, 12pl, 12pm, 12pn, 12po, 12pp, 12pq, 12pr, 12ps, 12pt, 12pu, 12pv, 12pw, 12px, 12py, 12pz, 12qa, 12qb, 12qc, 12qd, 12qe, 12qf, 12qg, 12qh, 12qi, 12qj, 12qk, 12ql, 12qm, 12qn, 12qo, 12qp, 12qq, 12qr, 12qs, 12qt, 12qu, 12qv, 12qw, 12qx, 12qy, 12qz, 12ra, 12rb, 12rc, 12rd, 12re, 12rf, 12rg, 12rh, 12ri, 12rj, 12rk, 12rl, 12rm, 12rn, 12ro, 12rp, 12rq, 12rr, 12rs, 12rt, 12ru, 12rv, 12rw, 12rx, 12ry, 12rz, 12sa, 12sb, 12sc, 12sd, 12se, 12sf, 12sg, 12sh, 12si, 12sj, 12sk, 12sl, 12sm, 12sn, 12so, 12sp, 12sq, 12sr, 12ss, 12st, 12su, 12sv, 12sw, 12sx, 12sy, 12sz, 12ta, 12tb, 12tc, 12td, 12te, 12tf, 12tg, 12th, 12ti, 12tj, 12tk, 12tl, 12tm, 12tn, 12to, 12tp, 12tq, 12tr, 12ts, 12tt, 12tu, 12tv, 12tw, 12tx, 12ty, 12tz, 12ua, 12ub, 12uc, 12ud, 12ue, 12uf, 12ug, 12uh, 12ui, 12uj, 12uk, 12ul, 12um, 12un, 12uo, 12up, 12uq, 12ur, 12us, 12ut, 12uu, 12uv, 12uw, 12ux, 12uy, 12uz, 12va, 12vb, 12vc, 12vd, 12ve, 12vf, 12vg, 12vh, 12vi, 12vj, 12vk, 12vl, 12vm, 12vn, 12vo, 12vp, 12vq, 12vr, 12vs, 12vt, 12vu, 12vv, 12vw, 12vx, 12vy, 12vz, 12wa, 12wb, 12wc, 12wd, 12we, 12wf, 12wg, 12wh, 12wi, 12wj, 12wk, 12wl, 12wm, 12wn, 12wo, 12wp, 12wq, 12wr, 12ws, 12wt, 12wu, 12wv, 12ww, 12wx, 12wy, 12wz, 12xa, 12xb, 12xc, 12xd, 12xe, 12xf, 12xg, 12xh, 12xi, 12xj, 12xk, 12xl, 12xm, 12xn, 12xo, 12xp, 12xq, 12xr, 12xs, 12xt, 12xu, 12xv, 12xw, 12xx, 12xy, 12xz, 12ya, 12yb, 12yc, 12yd, 12ye, 12yf, 12yg, 12yh, 12yi, 12yj, 12yk, 12yl, 12ym, 12yn, 12yo, 12yp, 12yq, 12yr, 12ys, 12yt, 12yu, 12yv, 12yw, 12yx, 12yy, 12yz, 12za, 12zb, 12zc, 12zd, 12ze, 12zf, 12zg, 12zh, 12zi, 12zj, 12zk, 12zl, 12zm, 12zn, 12zo, 12zp, 12zq, 12zr, 12zs, 12zt, 12zu, 12zv, 12zw, 12zx, 12zy, 12zz, 12aa, 12ab, 12ac, 12ad, 12ae, 12af, 12ag, 12ah, 12ai, 12aj, 12ak, 12al, 12am, 12an, 12ao, 12ap, 12aq, 12ar, 12as, 12at, 12au, 12av, 12aw, 12ax, 12ay, 12az, 12ba, 12bb, 12bc, 12bd, 12be, 12bf, 12bg, 12bh, 12bi, 12bj, 12bk, 12bl, 12bm, 12bn, 12bo, 12bp, 12bq, 12br, 12bs, 12bt, 12bu, 12bv, 12bw, 12bx, 12by, 12bz, 12ca, 12cb, 12cc, 12cd, 12ce, 12cf, 12cg, 12ch, 12ci, 12cj, 12ck, 12cl, 12cm, 12cn, 12co, 12cp, 12cq, 12cr, 12cs, 12ct, 12cu, 12cv, 12cw, 12cx, 12cy, 12cz, 12da, 12db, 12dc, 12dd, 12de, 12df, 12dg, 12dh, 12di, 12dj, 12dk

[illegible]

[illegible]

FIG. 9

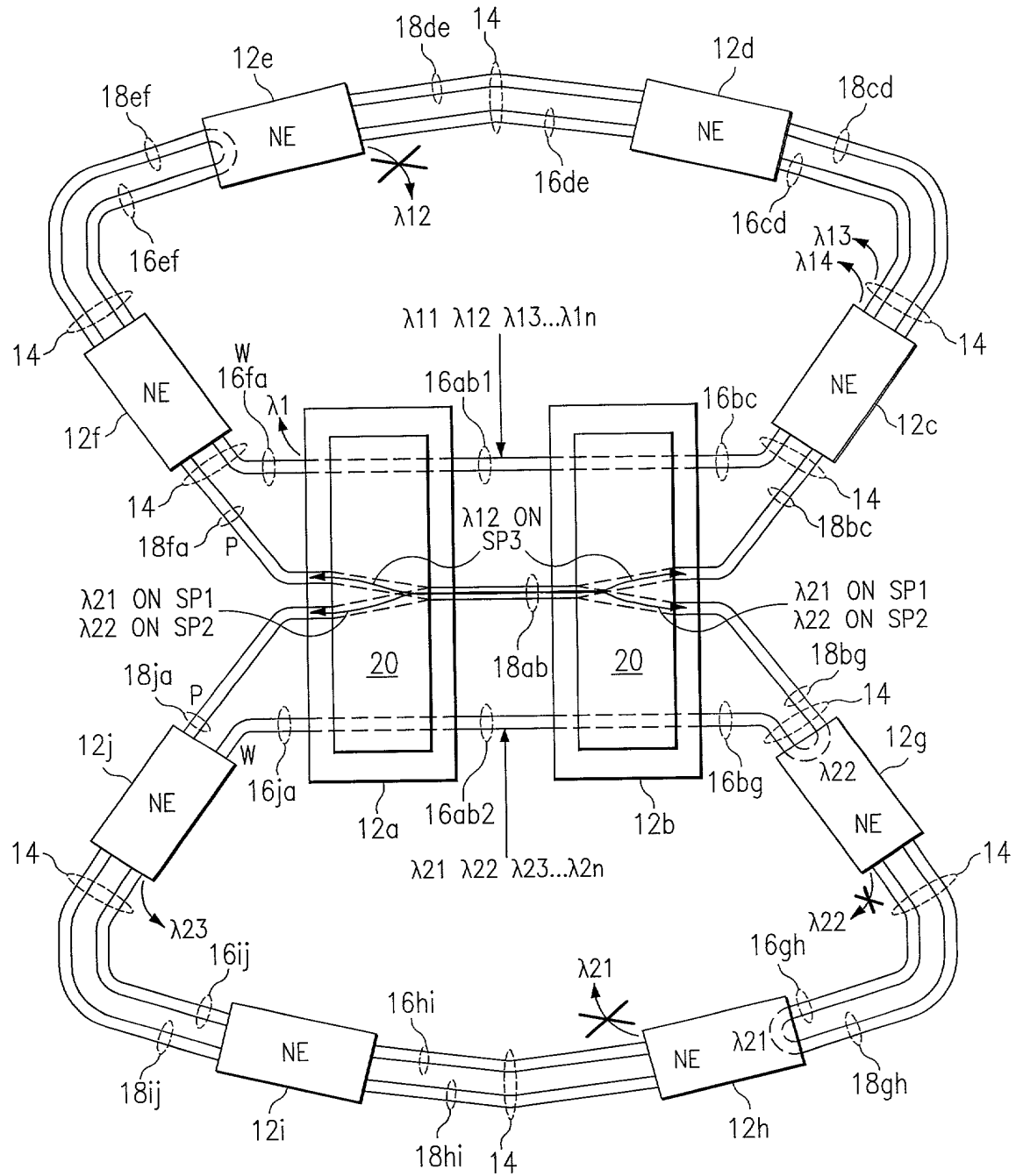




FIG. 10 9/10

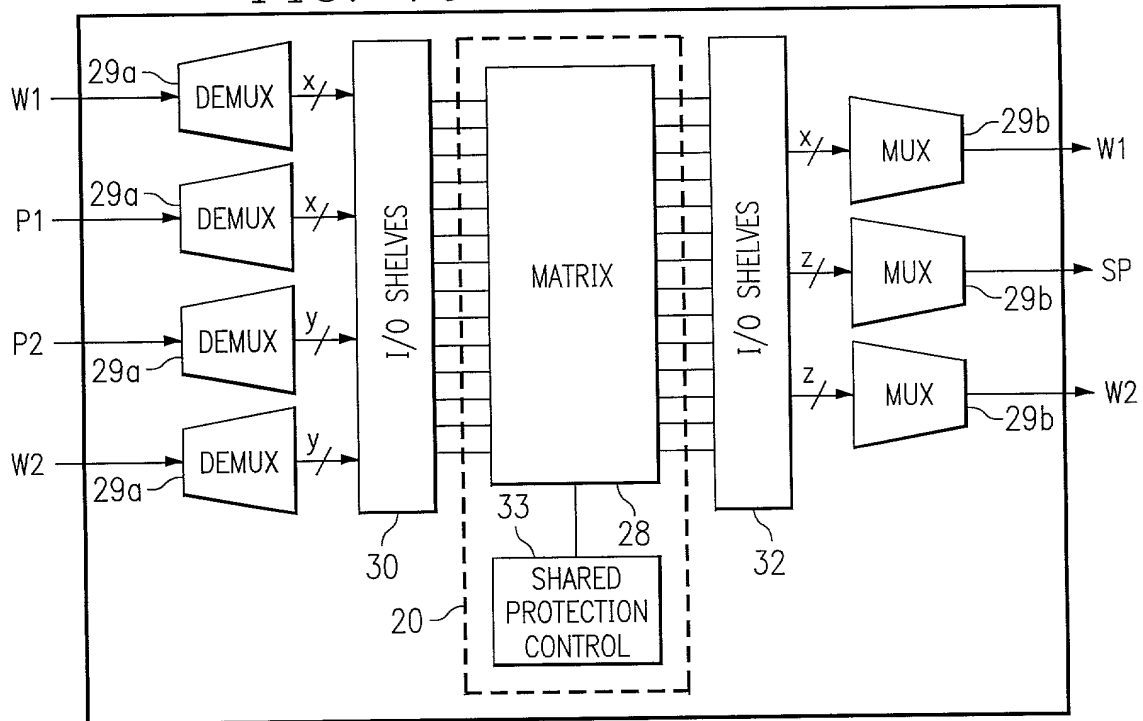


FIG. 11

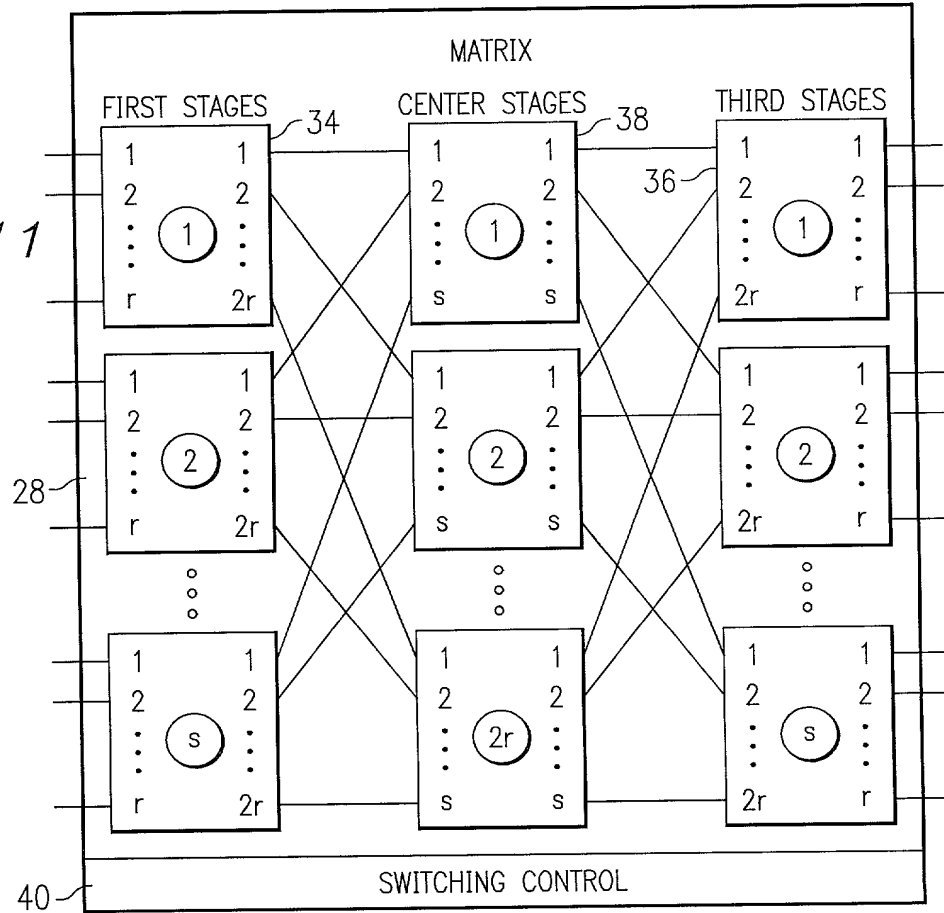


FIG. 12

